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DOG 28 REV DATE 5 MS ORIG COMP 23 OF1 S CRIG CLASS S PAGES 4 JUST 22 NEXT REV 2	REV	CLASS	5
		e Communication System is composed of Field Units, rried by aircraft crews,	5 5
station capa	ble of	s designed as a means of providing communications between the field units and a base automatically recognizing, receiving, and recording from the field unit.	5 5
1.	ARCS	Field Unit Components, Function, and Weight	
	(a)		5
	• •	A crystal-controlled, double-conversion superhetero- dyne receiver.	
	;	A storage battery; 5 cell, 7.5 volt, 5 ampere-hour, nickel-cadmium, capable of operating the transmitter through a minimum of 20 complete cycles with an equal number of 5 minute receiving periods, and 2 vibrator type power supplies.	
-		Antenna, antenna loading coils, radial ground wires and accessories, and headphones.	
\bigcirc		The field unit complete with carrying case weighs 29 pounds and measures 3 $1/16$ " x 11 $3/8$ " x 16 $1/4$ ".	
2.	ARCS	Base Station Component Parts	
• ·		Receiver racks containing two modified SP-600's for detection and RF amplification, recognition and recorder selector circuits, separate IF channels, and a standard power supply.	
	(b)	Recorder racks for recording	
	(c)		50

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	(d)	Base Station Component Parts (Cont'd) Test equipment including a signal simulator, a six beam scope and a Field Test Unit for checking output	

of the Field Units.

(e) Additional base equipment for a minimum installation is as follows:

Message Recorder Rack Visual Translator Rack Signal Simulator Test Equipment 6 Channel Oscilloscope Test Equipment

A second message recorder rack becomes necessary when the anticipated rate of incoming messages becomes high enough so that there is a significant probability that two messages may arrive at the same time, thus allowing both to be recorded simultaneously.

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